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STATISTICS ON SHIPPING CAPACITY, NANKING BRANCH, CHINA MERCHANTS STEAM NAVIGATION COMPANY

[Comment: This report gives six tables from an article entitled, "Nanking Branch of the CMSNC (China Merchants Steam Navigation Company) Carries Out Maximum Usage of Shipping Capacity," by Hsu Yu-jen, published in the Jen-min Chiao-t'ung (People's Communications), 15 October 1950. The tables show the fuel consumption of ships; the load capacity, schedules, and speed of small steamers; commodities used by steamers in July and August 1950; and oil consumption on ships of the Nanking Branch of the CMSNC.

The unit of measure for fixed rate of consumption of coal and oil given in Table 3 is kilograms per hour; this makes the figures in certain categories, such as grease consumption, seem high.]

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Table 1 Load Capacity, Time, and Speed of Small Steamers of Nanking Branch, CMSNC

Name of Ship	Month / Navigation Route	July		August		September			Load Capacity
		Ning-Chen	Chen-Shen	Ning-Wu	Wu-Huan	Huan-Hsin	Hsin-Han	Ning-Han	
	Standard Distance (nautical miles)	45	165	52	107	85	134	378	
	Navigation Time (in hours)								
Kuo-chung	Upstream time	14	50	19.3	39.6	31.5	49.6	140	--
	Minimum upstream time	13	49	19	39	31	49	--	--
	Maximum upstream time	15	51	20	41	32	50	--	350
	Downstream time	8	40	6.8	14	11.2	17.6	53	--
	Minimum downstream time	7.5	41	6.3	14.5	12	17	--	
	Maximum downstream time	8.5	39	7.3	13.5	11.5	18	--	750
Kuo-tu	Upstream time	13.7	48	18	37	29.5	47.5	132	--
	Minimum upstream time	13	47	18.5	36	[illegible]	46.5	--	--
	Maximum upstream time	15	49	17.5	38	30	48.5	--	350

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	Downstream time	6.5	34	6.8	14	11	17.5	49.3	--
	Minimum downstream time	7	34.5	6	13	10.5	18	--	--
	Maximum downstream time	8	35	7.3	15	12	17	--	750
Kuo-wu	Upstream time	14	50	19.3	39.6	31.5	49.6	140	--
	Minimum upstream time	13	49	19	39	31	49	--	--
	Maximum upstream time	15	51	20	41	32	50	--	350
	Downstream time	8	40	6.8	14	11.2	17.6	58	--
	Minimum downstream time	7.5	41	6.3	14.5	12	17	--	--
	Maximum downstream time	8.5	39	7.3	13.5	11.5	18	--	800
	Upstream time	14	48	23	48	38	59	168	--
	Minimum upstream time	13	49	22	47	37	58	--	--
	Maximum upstream time	15	47	24	49	39	60	--	400
	Downstream time	10	40.6	8.3	17	13.5	21.3	60	--

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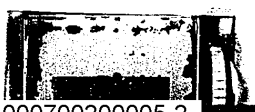

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	Minimum downstream time	9.5	40	7.8	16.5	13	20.8	--	--	
	Maximum downstream time	10.5	41	9	18	14	22	--	900	
Fei-liang	Upstream time	--	--	11.3	23.2	18.5	29	82		
	Minimum upstream time	--	--	12	24	17.5	28	--		
	Maximum upstream time	--	--	10.5	22	19.5	30	--	300	
	Downstream time	--	--	5.7	12	9.4	14.9	42		
	Minimum downstream time	--	--	6	11.5	9	14.4	--		
	Maximum downstream time	--	--	5.2	12.5	10	15.0	--	800	
Sheng-cheng	Upstream time	17	--	21.4	43.8	35.3	54.9	155.4		
	Minimum upstream time	16	--	21	43	35	55	--		
	Maximum upstream time	18	--	22	44.3	35.8	53.9	--	200	
	Downstream time	7.8	--	8	17	13.5	21.5	60		
	Minimum downstream time	7.3	--	7	18	12.5	20.5	--		

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	Maximum downstream time	8.3	--	9	16	14.5	22.5	--	500
Kuo-fu	Upstream time	16	--	20	40	31.5	51.9	--	200
	Minimum upstream time	15	--	19.5	39.5	30	50.9	--	
	Maximum upstream time	17	--	20.5	41	32	52.9	--	
	Downstream time	7	--	6.5	25	11.5	20.5	--	500
	Minimum downstream time	6.5	--	7.0	14	11.0	19.5	--	
	Maximum downstream time	7.5	--	6.0	16	12.0	21.0	--	
Hua-ching	Upstream time	14	53	--					
	Minimum upstream time	13	52	--					
	Maximum upstream time	15	54	--					200
	Downstream time	10	36	--					
	Minimum downstream time	9	35	--					
	Maximum downstream time	11	37	--					500

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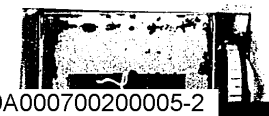

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Hua-sui	Upstream time	14	53	--
	Minimum upstream time	13	52	--
	Maximum upstream time	15	54	--
	Downstream time	9.6	35	--
	Minimum downstream time	9	34	--
	Maximum downstream time	10	36	--
Hsin-ch'ing-ying	Upstream time	14	60	--
	Minimum upstream time	13	59	--
	Maximum upstream time	15	61	--
	Downstream time	8.5	60	--
	Minimum downstream time	8	59	--
	Maximum downstream time	9	61	--

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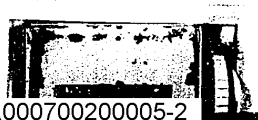

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Table 2. Oil Consumption on Ships of Nanking Branch, CMSNC (per hour)

Name of Ship	Fuel Oil		Motor Oil		Hydraulic Oil		Cylinder Oil	
	Fixed Amount	Revised Amount	Original Amount	Revised Amount	Original Amount	Revised Amount	Original Amount	Revised Amount
Kuo-yuan					4 taels	4.8 taels	3 taels	3.6 taels
Kuo-chung					6 taels	7.2 taels	3 taels	3.6 taels
Fei-liang					5 taels	6 taels	3.5 taels	4.2 taels
Kuo-ch'en					9 taels	10.8 taels	3.5 taels	4.2 taels
Kuo-wu					18 taels	9.6 taels	2 taels	2.4 taels
Kuo-tu					8 taels	9.6 taels	2 taels	2.4 taels
Sheng-ch'eng					4 taels	4.8 taels	3 taels	3.6 taels
Hua-sui	6 1/2 gal	23.4 kg	3/4 gal	27 kg				
Kuo-po					9 taels	10.8 taels	2 taels	2.4 taels
Hua-ching	4 gal	13.3 kg	2.8 lb	1.3 kg				
Kuo-lien	4 gal	13.5 kg	8 taels	9.6 taels				
Hsin-ch'ing-ying					3 taels	3.6 taels	2 taels	2.4 taels
Kuo-fu					4 taels	4.8 taels	2.5 taels	3 taels
Fei-t'ung	9 gal	30.2 kg	5/7 gal	2.6 kg				
Ch'un-li								

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Table 3. Fixed Rate of Consumption for Coal and Oil per Hour (in kilograms) [sic]

Name of Ship	Coal (for)					Oil			
	Navigation	Harbor Work	Temporary Anchorage	Anchorage	Making Drinking water	Cylinder Oil	Mobile Oil	Grease	Tallow Oil
Peking	457	369	--	111	200	108	67	58	65
Antung	270	250	59	43	100	96	61	70	43
Pei-tung	523	440	158	132	200	330	235	73	47
Chin-chou	290	256	44	54	100	99	129.5	29	76
Chu-chiang	290	293	89.5	45	80	140	90	70	20
Chekiang	134	94	--	29	68	89	81	58	--
Sheng-li	386	380	200	100	100	183	183	120	--
Nung-min	480	400	140	100	100	203	205	102	--
Sung-chiang	230	220	96	60	100	150	200	100	--
Min-chiang	120	115	20	20	40	62	40	40	18
Hsiang-p'ing	438	335	20	73	110	116	136	89	60
Kung-jen Hao	370	338	96	20	110	372	320	100	--
Chieh-fang	840	740	82	180	120	251	153	46	--
Ch'ang-ch'un	330	295	80	77	90	85	85	59	15
Ho-chiang	135	90	45	40	50	39	15	36	9
Liao Ho	65	13	27	25	50	80	130	20	10
Mukden	449	402	--	131.5	200	110	126	76	81

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Name of Ship	Explanation
F.king	The fixed rates of coal and oil are determined by the actual consumption for April and May, but the fixed rate of tallow oil is calculated by adding the planned and actual consumption and dividing by two.
Antung	Since harbor work consumption of coal exceeds navigation consumption of coal by 30 kilograms, the harbor work consumption of coal is calculated as 250 kilograms. Others are calculated according to actual consumption.
Pei-tung	The fixed rates are determined according to actual consumption. But the fixed rate of drinking water is increased by 200 kilograms per ton.
Chin-chou	After the closing of books, this ship has an inventory of 10 tons of coal. It is calculated that 9 kilograms of coal should be deducted from consumption. Therefore, 5 kilograms are deducted from navigation, 4 kilograms from anchorage, 16 kilograms from drinking water. For oil consumption, 20 kilograms are deducted from cylinder oil, 20 kilograms from mobile oil, 16 kilograms from grease.
Chu-chiang	The fixed rates are determined according to actual consumption. But the fixed rate of drinking water is calculated as 80 kilograms in accordance with the number of personnel on ship.
Chekiang	The fixed rates are determined according to actual consumption. But the fixed rate of drinking water is calculated as 63 kilograms in accordance with the number of personnel on ship.
Sheng-li	The navigation adjustment is calculated according to harbor work and navigation time. Ten kilograms are deducted from harbor work, and 2 kilograms are deducted from navigation. Other fixed rates are determined in accordance with actual consumption.
Nung-min	The fixed rates are determined according to actual consumption. The fixed rate of drinking water is calculated as 100 kilograms in accordance with the number of personnel on ship.

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Sung-chiang	This ship has an excess of 20 tons of coal. Therefore, coal consumption for navigation is calculated as 230 kilograms; harbor work, 220 kilograms. Others are calculated according to actual consumption.
Min-chiang	The fixed rates are determined according to actual consumption. The fixed rate of tallow oil is calculated in accordance with the planned number.
Hsiang-p'ing	Hsiang-p'ing works at Chia-mu-ssu and therefore the fixed rates are determined according to actual consumption, but 10 kilograms are deducted from harbor work, and one kilogram is added to navigation.
Kung-jen Hao	Kung-jen Hao works at Chia-mu-ssu and therefore the fixed rates are determined according to actual consumption.
Chieh-fang	Chieh-fang works at Chia-mu-ssu and therefore the fixed rates are determined according to actual consumption.
Ch'ang-ch'un	The fixed rates are determined according to actual consumption.
Ho-chiang	Coal consumption for navigation is calculated according to actual consumption of this year; harbor work, according to fixed rates; temporary anchorage, according to fixed rates; anchorage, according to actual consumption; oil, according to actual consumption.
Liao Ho	Coal consumption for navigation is calculated according to actual consumption of this year; harbor work, according to fixed rates; temporary anchorage, according to fixed rates; anchorage, according to fixed rates; oil, according to actual consumption.
Mukden	There is no actual consumption rate for this year and the fixed rates are to be the same as the previous year.

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Table 4. Comparison Between Fixed Rate of Consumption and Actual Consumption of Coal and Oil for April-May 1950

Name of Ship			Mukden		Ho Chiang		Liao Ho		Ch'ang-ch'un		Chieh-fang Hao		Kung-jen Hao	
			hr	min	hr	min	hr	min	hr	min	hr	min	hr	min
Navigation Time (hours and minutes)		Navigation			342.	45	106.	20	508.	50	234.	25	357.	30
		Harbor Work							22.	00	9.	40	55.	30
		Temporary Anchorage			556.	15	253.	00	131.	40	52.	00		
		Anchorage			585.	00	135.	45	282.	10	146.	35	611.	00
Acutal consumption per hour for 1949 in kilograms	Coal	Navigation		499		150		75				850		800
		Harbor Work		442		100		14				800		500
		Anchorage	146.	5		50		28				150		200
	Oil	Cylinder Oil		112		100		116				825		350
		Mobile Oil		129		150		176				620		400
		Grease		73		50		10				205		150
		Tallow Oil		83										
Planned consumption per hour for 1950 (kilogram)	Coal	Navigation		449		135		67				760		720
		Harbor Work		402		90		13				720		450
		Anchorage	131.	5		45		25				135		180

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Hsiang P'ing		Min Chiang		Sung Chiang		Nung Min		Sheng Li		Che Chiang		Chu Chiang		Chin Chou	
hr	min	hr	min	hr	min	hr	min	hr	min	hr	min	hr	min	hr	min
583.	00			405.	45	394.	00	310.	30	442.	15	149.	00	472.	10
58.	00			15.	30	44.	00	47.	15	46.	30	18.	30	31.	15
32.	00			350.	45	161.	00	184.	00			65.	00	43.	10
1,044.	15			13.	00	182.	30	387.	15	98.	55	148.	00	764.	20
	565		143		300		300		400		150		316		321
	454		138		300		300		400		158		261		
	83		59		100		100		200		40		112		316
	187		63		250		200		200		138		213		110. 50
	189		44		135		150		200		91		199		109
	103		57		125		150		100		31		31		109
	65		18		100		50		50				10		55
	508		129		270		270		360		143		284		289
	409		125		270		270		360		142		235		
	75		53		90		90		180		36		101		284

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Pei-tung		Antung		Peiping	
hr	min	hr	min	hr	min
403.	40	512.	00	345.	15
19.	00	58.	25	11.	00
100.	15	200.	40		
516.	25	445.	00	573.	45
	700		498		642
			410		357
	300		147		148
	200		126		111
	150		67		58
			59		48
	75		54		72
	630		367		578
			369		321
	270		43		133

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Explanation

Subtract 10% from 1949 actual coal consumption per hour and 2% from 1949 actual oil consumption per hour to get the planned consumption per hour for 1950.

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Actual consumption per hour for 1950 (kilogram)	Oil	Cylinder Oil	110	98	114		808		343		
		Mobile Oil	126	147	172		608		392		
		Grease	76	49	110		201		147		
		Tallow Oil	81								
	Coal	Navigation		146	65	330	840		670		
		Harbor Work				295	740		338		
		Temporary Anchorage			27	80	82		96		
		Anchorage		40		77	180		20		
		Drinking water			80	65	30		100		
	Oil	Cylinder oil		39	80	85	251		372		
		Mobile oil		15	130	85	151		320		
		Grease		36	20	59	46		100		
		Tallow Oil		9	10	15					
Comparison between actual consumption per hour and planned consumption per hour for 1950 (kilogram)	Coal	Navigation	+	11	- 2		+	75	- 50		
		Harbor Work					+	20	- 112		
		Temporary Anchorage	-	5							

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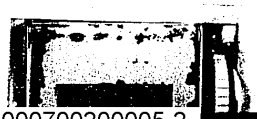

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183	62	245	196	196	135		209	108.	50	
185	43	132	147	196	89		195		107	
101	56	122	147	98	30		30		107	
64	18	98	49	49			10		54	
437		250	480	384	134		200		200	
345		250	400	390	94		206		253	
20		96	140	200		89.	50		44	
725		60	100	100	29		45		55	
200		56	96	100	77		50		116	
116		50	203	183	89		140		99	
136		200	205	183	81		90	129.	5	
89		100	102	120	58		70		20	
60							20		35	
- 71		- 20	+ 130	+ 24	- 9	+	6	+	1	
- 64		- 20	+ 130	- 50	- 48	+	61			
- 55										

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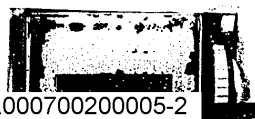

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196	126	109
147	66	57
	58	47
74	53	71
523	270	457
440	300	369
158	59	
132	37	111
120	100	200
330	96	108
235	61	67
73	70	58
47	33	60
- 107	- 97	- 121
	- 69	+

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Drinking water means distilling fresh water from salt water.

1. The symbol - in front of a figure indicates smaller amount of actual consumption.
2. The symbol + in front of a figure indicates greater amount of actual consumption.

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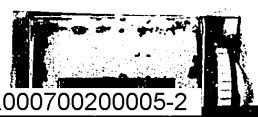

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	Anchorage							
	Drinking Water				+	45	-	160
Oil	Cylinder Oil	-	59	- 34	-	70		0
	Mobile Oil	-	132	- 42	+	557	+	28
	Grease	-	13		+	457	-	82
	Tallow Oil				+	155	-	47

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- 2.5	- 30	+ 10	- 80	+ 7	- 56	- 229	
- 56	- 4	+ 4	0	+ 3	- 25	+ 8	
- 67	- 195	+ 7	- 13	- 46	- 69	- 9. 5	
- 49	+ 68	+ 58	- 13	- 8	- 105	+22. 5	
- 12		- 45	+ 22	+ 28	+ 40	- 78	
- 4					+ 10	- 19	

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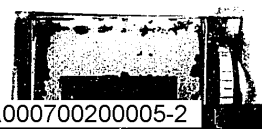

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[Adjoins page 16 here.]

- 138	- 6	- 20
0	+ 10	+ 20
+ 134	- 30	- 1
+ 88	- 5	+ 10
	+ 12	- 11
- 27	- 20	- 11

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Table 5. Commodities Used by Steamers of Nanking Branch, CMSNC, July-August 1950

Commodity	Type of Boat / Unit of Measure	Flat Lighter (Oil) "Chia"	Flat Lighter (Oil) "Chi"	Flat Lighter (Oil) Total	Small Scale Iron Lighter "Chia"	Small Scale Iron Lighter "Chi"	Small Scale Iron Lighter Total	Wood Lighter "Chia"	Wood Lighter "Chi"	Wood Lighter Total
Alum	kilogram	5		5	2		2	2		2
Rock salt	kilogram	2		2	1		1	1/2		1/2
Baskets	piece	1		1	1		1	1		1
Lead barrels	piece	1		1	1		1	1		1
Cotton yarn rope	kilogram	2		2	1		1	1		1
Cotton yarn bale	kilogram	2		2	1		1	1		1
White cloth	meter									
Matches	package	1		1	1		1	1		1
Brooms	piece	3		3	3		3	2		2
Dusters	piece	2		2	2		2	2		2
Tea	kilogram									
Batteries	piece	4		4	4		4	4		4
Flashlight bulbs	piece	2		2	2		2	2		2

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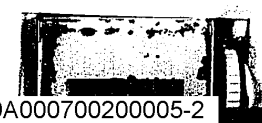

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Large-Scale Steam Tug "Chia"	"Chi"	Total	Small Scale Steam Tug "Chia"	"Chi"	Total	Small-Scale Steamboat "Chia"	"Chi"	Total	Explanation
7		7	2		2	1 1/2		1 1/2	
2	1 1/2	3 1/2	1	1 1/2	2 1/2	1/2		1/2	
2	1	3	2	1	3	1		1	
2	1	3	1	1	2	1		1	One issued every 4 months
2	1	3	1	1/2	1 1/2	1		1	
2	18	30	1 1/2	10	11 1/2	5		5	
	5	5		3	3				
1	1	2	1	1	2	1		1	
3	1	4	3	1	4	1		1	
2	1	3	2	1	3	1		1	
9	9	18	6	6	12	4		4	
3	2	5	2	2	4	2		2	

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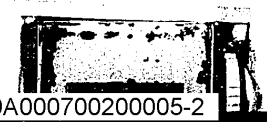

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Kerosene	kilogram	15	15	15	15	12	12
Oil for lamps	kilogram	5	5	5	5	3	3
Wick for lamps	roll	1/2	1/2	1/2	1/2	1/2	1/2
Liquid soap	kilogram	1 1/2	1 1/2	1	1	1/2	1/2
Cake soap	piece	4	4	3	3	2	2

Notes: 1. Only one lead barrel or one basket may be issued every 4 months

2. Large-scale iron lighter, over 300 tons in weight
Small-scale iron lighter, under 300 tons in weight
Large-scale steam tug, over 100 tons in weight
Small-scale steam tug, under 100 tons in weight

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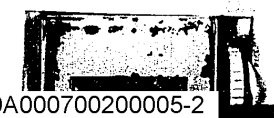

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15	15	30	15	15	30	15	15
4		4	6		8	2 1/2	2 1/2
1/2	1 1/2	2 1/2	1/2	1/2	1	1/2	1/2
1	1 1/2	2 1/2	1	1 1/2	2 1/2	1/2	1/2
4	6	10	3	5	8	1	1

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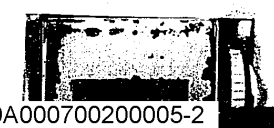

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Table 6 Fuel Consumption on Ships by Nanking Branch of CMSNC
(in tons except where otherwise indicated)

Name of Ship	Type of Fuel	Fuel		Hydraulic Oil		Cylinder Oil		Building Up Pressure	Banking the Fire
		Original Fixed Amount	Revised Amount	Original Fixed Amount	Revised Amount	Original Fixed Amount	Revised Amount		
Kuo-yuan	coal	0.260	0.250	45	4	3	3	0.300	0.030
Kuo-chung	coal	0.300	0.270	6	6	3	3	0.560	0.040
Fei-liang	coal	0.300	0.260	55	5	35	35	0.300	0.030
Kuo-ch'en	coal	0.400	0.390	10	9	4	35	0.500	0.050
Kuo-wu	coal	0.300	0.280	10	10	2	2	0.380	0.025
Jung-hsing	coal	0.190	0.160	45	45	35	35	0.250	0.025
Kuo-tu	coal	0.250	0.240	10	8	3	3	0.375	0.025
Sheng-ch'eng	coal	0.170	0.150	4	4	3	3	0.230	0.020
Hua-sui	oil	6 gal	6 1/2 gal	3/4 gal	3/4 gal	--	--	--	--
Kuo-po	coal	0.400	0.380	10	9	2	2	0.500	0.045
Hua-ching	oil	4 gal	3 5/7 gal	1/2 gal	2.8 lb	--	--	--	--
Kuo-lien	oil	4 gal	3 3/4 gal	8	8	--	--	--	--
Hsin-kuang-ying	coal	0.150	0.130	4	3	3	2	0.150	0.020
Kuo-fu	coal	0.190	0.170	4	4	3	2.5	0.750	0.020
Fei-t'ung	oil	9 gal	8.4 gal	5/7 gal	5/7 gal	--	--	--	--
Ch'un-li	coal	0.125	0.120	4	3	4	3	0.170	0.020

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